
CLOE 12H

Micro Blade Server Barebone



CLOE 12H is a 3U high density Micro-Cloud Server.

It allows the system to support up to 12 hot-pluggable server nodes in a 3U chassis height, with each server node individually to operate according to the needs to flexible configure the number of server nodes.

Customized and Flexible Configurations

Maximum 12 nodes in a system to fulfill requirements upon application needs based on 3, 6, 9 or 12 nodes configuration, Each node support 4x DIMM slot, capacity up to 128GB ECC DDR4. Each node support up to 2x 3.5" or 4x 2.5" internal drives, overall 24x 3.5" or 48x 2.5" internal drives support in a full configured system.

High Availability and Capability

Supports Intel® Xeon E processor E-2100/E-2200 Series. TDP Up to 95W, Single Socket H4 (LGA 1151).

Centralized Power Supply, Strong Stability

The system equipped with 1+1 hot-swappable 1600W 80+ Platinum redundant PSU. The use of centralized power supply and 1+1 redundant power supply, to ensure system stability.

Rear Smart Fan Control

4x 9038 high performance & hot-swappable fan module with smart fan control and management on the chassis rear.

Anti-vibration mechanism design on fan module.

Support Remote Management

System Remote Management through IPMI2.0

Remote Management Technology and Shared Gigabit Management Network Port.

Local HDMI-to-VGA port build-in benefits the serviceability.



System

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|---------------------------|-------------------------------------------------------------------------------------------------|
| Server Node | System support up to 12x hot-swappable server nodes, order configurable by 3, 6, ,9 or 12 nodes |
| CPU | Single CPU support on each node |
| System Hard Drives | Support up to 24x 3.5" or 48x2.5" hard drives on full configuration |
| System Memory | Support up to 1536GB ECC DDR4-2133/2400/2666/2933/3200 UDIMM VLP on full configuration |
| System Dimension | 31.5" *17.6" *5.2" (D*W*H) |

Power Supply With PDB

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|-------------------------|--------------------------------------------------------|
| PSU Module | 1+1 redundant PSU |
| PSU Efficiency | 1600W module 80+ Platinum |
| PSU Input/Output | AC Input: 100-240V 47Hz~63Hz DC Output: +12V,+5V_SB |

System Mainboard

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|-------------------------------|---------------------------------------------------------------------------------------------------|
| MB Model | H4SCN |
| CPU Type | Supports Intel® Xeon E Processor E-2100/E-2200 Series. TDP Up to 95W, Single Socket H4 (LGA 1151) |
| Chipset | Intel® PCH C246 |
| DIMM Quantity | Support 4*DIMM VLP slot, 288 Pin DDR4 UDIMM ECC |
| DIMM Type and Capacity | Up to 128GB DDR4-2133/2400/2666/2933/3200 ECC UDIMM; support 8GB,16GB, 32GB |
| SATA Port | Support 6 SATA3.0 6Gb/s port |
| RAID Mode Support | Support Intel® RSTe RAID 0,1,5,10 |
| BMC | Aspeed AST2500 128MB |
| IPMI | Support IPMI 2.0 |
| NIC | 2x Intel® i210 1GbE on board, and optional 4x 1GbE or 2x 10GbE NIC module |
| USB / VGA | 2*USB3.0 |
| SATA DOM | Support SATA DOM power connector |
| M.2 | Support PCIe4x M.2 NVMe SSD 2280, optional second PCIe4x M.2 NVMe SSD 2280 |

System Cooling

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|---------------------|----------------------------------------------|
| Fan Quantity | Up to 4x 8038, support PWM smart fan control |
| Fan Speed | Up to 9900 RPM |

Operation System Compatibiliy

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|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operating System Support | Windows Server 2012 R2(64bit); Windows Server 2016 R2 (64bit) Redhat Enterprise Linux Server (32bit/64bit); Suse Enterprise Linux Server (32bit/64bit); Ubuntu Server (32bit/64bit) |
| Virtualization System Support | VMWare ESXi(Target) Microsoft Hyper-V (Target) Citrix Xen Server(Target) Linux Kernel Virtual Machine (Target) |

Operating Environment

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|--------------------|-------------------------------------|
| Temperature | OP:10°C ~ 35°C; NON-OP:-40°C ~ 70°C |
| Humidity | OP:35%~80% ; NON-OP:20% ~ 90% |